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cobatoxin 1 polypeptide, comprising the steps of: synthesizing an oligonucleotide primer comprising a nucleotide sequence of at least 30 (preferably at least 40, most preferably at least 60) contiguous nucleotides derived from a nucleotide sequence selected from the group consisting of SEQ ID NOs:1, 3, 5, 7, 9, 11, 13, 15, 17, and 19, and the complement of such nucleotide sequences; and amplifying a nucleic acid fragment (preferably a cDNA inserted in a cloning vector) using the oligonucleotide primer. The amplified nucleic acid fragment preferably will encode a substantial portion of a potassium channel blocking toxin 15-1, a Bmtx toxin, a neurotoxin P2, a leiurotoxin I, a leiuropeptide I, a leiuropeptide III, a kaliotoxin 1 precursor or a cobatoxin 1.

IN THE CLAIMS:

Please cancel claims 1-17.

Please add the following claims:

- 18. "added" An isolated polynucleotide comprising:
- (a) a nucleotide sequence encoding a polypeptide having cobatoxin activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 80% sequence identity based on the Clustal alignment method, or
- (b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.
- 19. "added" The polynucleotide of Claim 18 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 85% sequence identity based on the Clustal alignment method.
- 20. "added" The polynucleotide of Claim 18 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 90% sequence identity based on the Clustal alignment method.
- 21. "added" The polynucleotide of Claim 18 wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:2 have at least 95% sequence identity based on the Clustal alignment method.
- 22. "added" The polynucleotide of Claim 18 wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.
- 23. "added" The polynucleotide of claim 18 wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:1.
 - 24. "added" A vector comprising the polynucleotide of Claim 18.
- 25. "added" A recombinant DNA construct comprising the polynucleotide of Claim 18 operably linked to a regulatory sequence.
- 26. "added" A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 18.
 - 27. "added" A cell comprising the recombinant DNA construct of Claim 25.

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- 28. "added" A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 18 and regenerating a plant from the transformed plant cell.
 - 29. "added" A plant comprising the recombinant DNA construct of Claim 25.
- 30. "added" A method for isolating a polypeptide encoded by the polynucleotide of Claim 18 comprising isolating the polypeptide from a cell containing a recombinant DNA construct comprising the polynucleotide operably linked to a regulatory sequence.
 - 31. "added" An isolated polynucleotide comprising:
- (a) a nucleotide sequence encoding a polypeptide having cobatoxin activity, wherein the amino acid sequence of the polypeptide comprises amino acids 22-58 of the amino acid sequence of SEQ ID NO:2, or
- (b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.